

In the Claims

1. (Original) An adhesion-enhanced polyimide film which comprises a core layer composed of a polyimide (A) having high rigidity and a low linear expansion coefficient, at least one side of which has a thin-layer formed by heating a coated layer comprising a heat-resistant surface treatment agent and a polyimide precursor which yields a highly heat-resistant amorphous polyimide (B).

2. (Original) An adhesion-enhanced polyimide film according to claim 1, wherein the polyimide (A) is obtained from 3,3',4,4'-biphenyltetracarboxylic dianhydride and p-phenylenediamine or p-phenylenediamine and 4,4'-diaminodiphenyl ether, from 3,3',4,4'-biphenyltetracarboxylic dianhydride and pyromellitic dianhydride and p-phenylenediamine or p-phenylenediamine and 4,4'-diaminodiphenyl ether, or from pyromellitic dianhydride and p-phenylenediamine and 4,4'-diaminodiphenyl ether.

3. (Original) An adhesion-enhanced polyimide film according to claim 1, wherein the polyimide (A) is obtained using 3,3',4,4'-biphenyltetracarboxylic dianhydride and p-phenylenediamine as the main components (at 50 mole percent or greater to 100 mole percent of the total).

4. (Original) An adhesion-enhanced polyimide film according to claim 1, wherein the polyimide (B) is obtained from at least one aromatic tetracarboxylic dianhydride selected from 2,3,3',4'-biphenyltetracarboxylic dianhydride, 2,2',3,3'-biphenyltetracarboxylic dianhydride, bis(3,4-dicarboxyphenyl)ether dianhydride, bis(2,3-dicarboxyphenyl)ether dianhydride and naphthalenetetracarboxylic dianhydride, and an aromatic diamine.

5. (Original) An adhesion-enhanced polyimide film according to claim 3, wherein the aromatic diamine is at least one member selected from p-phenylenediamine and 4,4'-diaminodiphenyl ether.

6. (Original) An adhesion-enhanced polyimide film according to claim 1, wherein the heat-resistant surface treatment agent is an aminosilane compound, an epoxysilane compound or a titanate compound.

7. (Currently Amended) An adhesion-enhanced polyimide film according to claim 1, wherein the polyimide (A) core layer has a thickness of about 10[[-]] to about 35 μm .

8. (Currently Amended) An adhesion-enhanced polyimide film according to claim 1, wherein the polyimide (B) thin-layer has a thickness of about 0.05[[-]] to about 1 μm .

9. (Currently Amended) An adhesion-enhanced polyimide film according to claim 1, wherein the polyimide film as a whole has a tensile modulus (MD) of between about 6 GPa and about 12 GPa and a linear expansion coefficient of about 5×10^{-6} to about $30 \times 10^{-6} \text{ cm/cm/}^{\circ}\text{C}$ (at 50-200°C).

10. (Original) A process for production of an adhesion-enhanced polyimide film, wherein an organic solvent solution comprising a heat-resistant surface treatment agent and a polyimide precursor which yields a highly heat-resistant amorphous polyimide (B) thin layer is coated onto at least one side of a self-supporting film obtained from a polyimide precursor solution which yields a polyimide (A) core layer having high rigidity and a low linear expansion coefficient, to form a multilayer self-supporting film which is then heated and dried to complete imidation.

11. (Original) An adhesion-enhanced polyimide film which is obtained by the production process of claim 10.

12. (Original) An adhesion-enhanced polyimide film in which a metal layer is laminated directly or via an adhesive onto an adhesion-enhanced polyimide film according to claim 1.

13. (Currently Amended) A flexible metal foil laminated body comprising a metal layer laminated directly or via an adhesive onto an adhesion-enhanced polyimide film according to ~~any one of claim[[s]] 1 to 9 or 11.~~

14. (New) A flexible metal foil laminated body comprising a metal layer laminated directly or via an adhesive onto an adhesion-enhanced polyimide film according to claim 2.

15. (New) A flexible metal foil laminated body comprising a metal layer laminated directly or via an adhesive onto an adhesion-enhanced polyimide film according to claim 3.

16. (New) A flexible metal foil laminated body comprising a metal layer laminated directly or via an adhesive onto an adhesion-enhanced polyimide film according to claim 4.

17. (New) A flexible metal foil laminated body comprising a metal layer laminated directly or via an adhesive onto an adhesion-enhanced polyimide film according to claim 5.

18. (New) A flexible metal foil laminated body comprising a metal layer laminated directly or via an adhesive onto an adhesion-enhanced polyimide film according to claim 6.

19. (New) A flexible metal foil laminated body comprising a metal layer laminated directly or via an adhesive onto an adhesion-enhanced polyimide film according to claim 7.

20. (New) A flexible metal foil laminated body comprising a metal layer laminated directly or via an adhesive onto an adhesion-enhanced polyimide film according to claim 8.

21. (New) A flexible metal foil laminated body comprising a metal layer laminated directly or via an adhesive onto an adhesion-enhanced polyimide film according to claim 9.

22. (New) A flexible metal foil laminated body comprising a metal layer laminated directly or via an adhesive onto an adhesion-enhanced polyimide film according to claim 11.